



S220GD+Z

Structural Steels

Material no.	1.0241
according to	DIN EN 10346/ DIN EN 10143

Surface finish

Thickness ranges

NA	0.40 – 4.00
MA	0.40 – 4.00
MB	0.40 – 4.00
MC ¹⁾	0.40 – 2.00

¹⁾ By agreement

Mechanical properties (longitudinal)

Yield strength $R_e^{3)}$ in MPa
≥ 220 MPa
Tensile strength R_m in MPa
≥ 300 MPa ($\leq 440^{4)}$)
Total elongation $A_{80}^{5)}$ in %
≥ 20 %

³⁾ $R_{eH}/R_{p0.2}$

⁴⁾ Guide value

⁵⁾ Thickness ≤ 0.70 mm minus two units.

Available dimensions

Thickness in mm	Width in mm
0.40 – 0.44	900 – 1,440
0.45 – 0.57	900 – 1,590
0.58 – 0.70	900 – 1,750
0.71 – 2.00	900 – 1,850
2.01 – 3.00	900 – 1,600
3.01 – 4.00	900 – 1,500

Chemical composition²⁾

(in percent by weight)

	min. in %	max. in %
C		0.20
Si		0.60
Mn		1.70
P		0.10
S		0.045

²⁾ Heat analysis

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